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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference FOR FUR PH/8302INT	THER ACTION See Form	PCT/IPEA/416	
International application No. International	filing date (day/month/year)	Priority date (day/month/year)	
PCT/IB 2002/005733 30-12-	age of	17-10-2002	
International Patent Classification (IPC) or national cla			
H04L12/46			
H04D12/40			
Applicant	•	1	
NOKIA CORPORATION ET AL			
This report is the international preliminary exa Authority under Article 35 and transmitted to	mination report, established by t the applicant according to Articl	his International Preliminary Examining e 36.	
	sheets, including this cov	ver sheet.	
			
This report is also accompanied by ANNEXE		1 and an Gallanyer	
a. \square (sent to the applicant and to the I	nternational Bureau) a total of	sheets, as follows:	
sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the			
Administrative Instructions). sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the			
Supplemental Box.			
b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s))			
, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the			
readable form only, as indicated Administrative Instructions).	in the Supplemental Box Relation	is to sequence and a sequence	
	e following items:		
4. This report contains indications retaining to the Box No. I Basis of the report	0 10110 wm 6 11011110.		
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Box No. II Priority	e of aminion with regard to novel	ty, inventive step and industrial applicability	
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Box No. IV Lack of unity of in		1	
Box No. V Reasoned stateme	nt under Article 35(2) with regar ions and explanations supporting	rd to novelty, inventive step or industrial g such statement	
Box No. VI Certain document	s cited		
1 1 ===================================	the international application		
3 1 1	ons on the international applicati	on	
BOX NO. VIII COLUMN COST			
Date of submission of the demand	Date of comple	ction of this report	
10-05-2004	21-12-20	004	
Name and mailing address of the IPEA/SE	Authorized off	icer	
Patent- och registreringsverket			
BOX 5055 S-102 42 STOCKHOLM	Ralf Bo	ström /LR	
Facsimile No. +46 8 667 72 88	Telephone No	.+46 8 782 25 00	
Form PCT/IPEA/409 (cover sheet) (January 2004)	·		

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

Internation Splication No.
PCT/IB 2002/005733

D.	x No. I	Racie o	of the report	
1.	With re	gard to the	e language, this report is based on the international application in the language id under this item.	n which it was filed, unless
	\Box	TT *	is based on a translation from the original language into the following language e language of a translation furnished for the purposes of:	,
	`	which is the	ternational search (under Rules 12.3 and 23.1(b))	
1			ablication of the international application (under Rule 12.4)	
		in	ternational preliminary examination (under Rules 55.2 and/or 55.3)	
2.	furnish	regard to the	the elements of the international application, this report is based on (replacem receiving Office in response to an invitation under Article 14 are referred to in the exed to this report):	nent sheets which have been is report as "originally filed"
1	\boxtimes	the intern	ational application as originally filed/furnished	
	Ħ	the descri	intion:	: :11 Flod/Grmished
		pages _		as originally filed/furnished
		pages*	received by this Authority on	
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		pages*	received by this Authority on	
		pages*	received by this Authority on	
		a seque	ence listing and/or any related table(s) - see Supplemental Box Relating to Sequence	e Listing.
	3.	The arr	nendments have resulted in the cancellation of:	
1			the description, pages	
1			the claims, Nos.	
1			the drawings, sheets/figs	
			the sequence listing (specify):	
- 1			any table(s) related to the sequence listing (specify):	
	4.	This made, 70.2(c		
			the description, pages	
			the claims, Nos.	
			the drawings, sheets/figs	
			the sequence listing (specify):	
		F	any table(s) related to the sequence listing (specify):	
	* If	item 4 app	lies, some or all of those sheets may be marked "superseded."	
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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

Internati	oplication No.
PCT/IB	2002/005733

the revelty inventive step and industrial applicability
Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of:
the entire international application
Claims Nos. 32-34
because:
the said international application, or the said claims Nos. relate to the following subject matter which does not require an international preliminary examination (specify):
20.24
the description, claims or drawings (indicate particular elements below) or said claims Nos. 32-34 are so unclear that no meaningful opinion could be formed (specify):
The question whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable has not been examined in respect of claims 32 and 33 since the claims do not clearly define the subject matter for which protection is sought. Claims 32 and 33 contain references to the drawings. According to Rule 6.2(a) PCT, claims should not contain such references except where absolutely necessary, which is not the case here. Claim 34 does not meet the requirements of Article 6 PCT in that the matter for which protection is sought is not clearly defined. Thus, no examination of claim 34 has been performed.
the claims, or said claims Nos.
by the description that no meaningful opinion could be formed.
no international search report has been established for said claims Nos.
the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the Administrative Instructions in that:
the written form has not been furnished
does not comply with the standard
the computer readable form has not been furnished
does not comply with the standard the tables related to the nucleotide and/or amino acid sequence listing, if in computer readable form only, do not comply with the technical requirements provided for in the Annex C-bis of the Administrative Instructions.
See Supplemental Box for further details.

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Internation pplication No.
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Box No. V Reasoned statement under Article 35(2) with regard to noverty, inventive step of Educations and explanations supporting such statement	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
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I. Statement	1.	Statement
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Novelty (N)	Claims Claims	2-17, 19-27, 29-31 1, 18, 28	YES NO
Inventive step (IS)	Claims Claims	<u></u> <u>1-31</u>	YES NO
Industrial applicability (IA)	Claims Claims	1-31	YES NO

2. Citations and explanations (Rule 70.7)

The application is concerned with a problem that when a user of a virtual private network (VPN) roams to a distant external part of the VPN he/she must manually select a preferred connection point to the VPN.

Documents cited in the International Search Report:

- D1. US 2002069278 A1
- D2. WO 0105122 A1
- D3. WO 9859467 A2

D1, which is considered to represent the most relevant state of the art, discloses a mobile virtual private network in which the point of attachment of the mobile client to the mobile VPN is allowed to change (see the summary section). The system in D1 includes a number of mobile service routers (MSR). The MSR closest to a mobile client performs regular authentication checks of the mobile client during service execution. When the mobile clients move around they can change to which MSR they are connected/anchored (section [0094]). A change of connection point may be due to a volunteer hand-off initiated by a intra-domain routing process when discovering a new optimal route across the network (see claim 23).

D2 describes a method for allowing endpoints to move between different zones of a packet-switched network (see abstract). In D2 communication between local and remote endpoints are established via a first gatekeeper, which serves a first zone of the network. When an endpoint moves to a location served by a second gatekeeper a hand-off communication is performed between the first gatekeeper and the second gatekeeper.

.../...

Supplemental Box

In case the space in any of the preceding boxes is not sufficient. Continuation of: BOX V

D3 discloses a method for establishing connections between subscribers who are located in different zones of a network. A first user in a first zone managed by a first gatekeeper, who wishes to establish a connection to another user in another zone managed by a second gatekeeper, sends a request to the forwarded to is request The gatekeeper. The zone management means requests management means. address from the second gatekeeper and returns an address confirmation, so that the connection may be set up abstract).

Claim 1:

The MSRs in D1 corresponds to the first and second gateways in the application. The volunteer hand-off that occurs when a new optimal route is discovered in D1 corresponds to the "means for automatically changing the point through which the mobile workstation communicates with the internal portion of the network" in the application. Thus, the invention according to claim 1 is considered to lack novelty. The invention according to claim 1 is industrially applicable.

Claims 18 and 28:

It is stated in these claims that a change of connection point (gateway) occurs because the new gateway is optimal for routing existing sessions. This is also the case in D1 (see for example claim 23). Thus, the invention according to claims 18 and 28 is considered to lack novelty. The invention according to claims 18 and 28 is industrially applicable.

Claims 2-17, 19-27 and 29-31:

The features of these claims are regarded as measures obvious to the skilled person. Thus, the invention according to claims 2-17, 19-27 and 29-31 is considered to lack an inventive step. The invention according to claims 2-17, 19-27 and 29-31 is industrially applicable.